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Environmental  
Resources  
Management, Inc.

3140 Chaparral Drive, S.W.  
Suite 201  
Roanoke, Virginia 2  
(703) 776-3545  
(703) 776-8530 (fax)

RECEIVED

AUG 21 1995  
WESTERN RESPONSE  
SECTION

18 August 1995

Mr. Jeffrey A. Dodd  
On-Scene Coordinator - USEPA Region III  
303 Methodist Building  
11th and Chapline Streets  
Wheeling, West Virginia 26003



ERM.

RE: Virginia Scrap Iron and Metal Company, Roanoke Avenue  
Site, Roanoke, Virginia, Docket No. III-95-09-DC,  
Progress Report No. 5

Dear Jeff:

In accordance with the consent agreement for the subject site, please find attached to this letter the fifth Progress Report for Removal Action activities being conducted at the Roanoke Avenue Site. On 11 August 1995, ERM personnel collected two composite soil samples from the debris piles for TCLP metals analyses. The laboratory analytical results for the composite samples are included with the progress report.

We anticipate providing you with a schedule for removal activities at the Site following receipt of your comments on the Supplemental Removal Plan. We will await your comments before moving forward with additional activities.

Please do not hesitate to contact me directly if you have any questions regarding this letter or the attached report.

Sincerely,

Bren Huggins, P.G., P.Hg.  
Branch Manager and Associate

Enclosure

cc: Mr. Samuel Golden, Virginia Scrap Iron and Metal Company  
Mr. Charles L. Williams, Gentry, Locke, Rakes & Moore

AR100709

**VIRGINIA SCRAP IRON & METAL CO. - ROANOKE AVENUE SITE  
ROANOKE, VIRGINIA  
DOCKET NO. III-95-09-DC  
PROGRESS REPORT NO. 5  
20 JULY 1995 THROUGH 18 AUGUST 1995**

This is Progress Report No. 5 for the Virginia Scrap Iron and Metal Company - Roanoke Avenue Site in Roanoke, Virginia, covering the period 20 July 1995 through 18 August 1995.

**1. RESPONSE ACTION COMPLETED**

On 11 August 1995, ERM personnel collected two composite soil samples (CS-DP1 and CS-DP2) from the debris piles for analysis for arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver by the toxicity characteristic leaching procedure (TCLP). Sample CS-DP1 was a composite of six (6) aliquots of soil/material collected from the area exhibiting total lead concentrations in excess of the Removal Response Goal of 1,000 mg/Kg in Debris Pile #1. Sample CS-DP2 was composited from three (3) aliquots of soil/material collected from Debris Pile #2. Sample collection procedures, preservation, and transport were conducted in accordance with the standard protocols described in the USEPA-approved Response Action Plan (RAP) dated 1 March 1995. The samples were shipped via Federal Express Priority Overnight delivery to Gulf States Analytical Services, Inc. in Houston, Texas for analysis.

On 16 August 1995, ERM received the laboratory analytical results for composite samples CS-DP1 and CS-DP2. The samples did not exhibit any leachable concentrations of arsenic, barium, cadmium, chromium, lead, mercury, selenium, or silver above the regulatory levels. A copy of the laboratory analytical report is included as Attachment 1.

**2. DATA ANTICIPATED AND ACTIVITIES SCHEDULED**

We anticipate providing the USEPA with a schedule for removal activities at the Site following receipt of USEPA's comments on the Supplemental Removal Plan. During removal activities, confirmational soil samples will be collected and analyzed to ensure the removal of all soil/material with total lead concentrations exceeding 1,000 mg/Kg. The results of the confirmational soil samples will be forwarded to USEPA as they become available.

**3. PROBLEMS ENCOUNTERED OR ANTICIPATED**

No problems encountered or anticipated.

**4. ACTIONS TAKEN TO PREVENT OR MITIGATE PROBLEMS**

None

**5. SCHEDULE FOR MITIGATING PROBLEMS**

None

**6. COPIES OF ALL ANALYTICAL DATA**

Copies of all of the preliminary field data and field location maps were provided to the USEPA during the field investigation activities of 10-14 April 1995. In addition, copies of all validated analytical data were submitted to the USEPA in the Field Investigation Report dated 17 May 1995.

A copy of the laboratory analysis report for the TCLP analyses of composite samples CS-DP1 and CS-DP2 is included as Attachment 1.

**7. MODIFICATIONS TO THE RESPONSE ACTION PLAN OR SCHEDULE**

At this time, no changes are anticipated.

***Attachment 1  
Laboratory Analysis Report for  
Composite Samples***

**AR100712**



**GULF STATES ANALYTICAL, INC.**  
6310 Rothway • Houston, Texas 77040  
(713) 690-4444 • FAX (713) 690-5646

## ANALYSIS REPORT FACSIMILE

Date : August 16, 1995  
Deliver To: Mr. Ross Miller  
Company : ERM, Inc. (Roanoke, Va.)  
Phone : 703-776-3545  
Fax Number: 703-776-8530

From : Lisa R. Mayfield  
Company : GULF STATES ANALYTICAL, INC.  
Fax Number: (713) 690-5646

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Attached are the analytical results for the samples you submitted on August 11, 1995 under your Project Number J9601.02.01 and assigned to GSAI Group Number 17388.

Our A2LA accreditation requires that, should this report be reproduced, it must be reproduced in total.

Thank you for selecting Gulf States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions, please feel free to contact me at any time.

**GULF STATES ANALYTICAL, INC.**

6310 Rothway • Houston, Texas 77040

(713) 690-4444 • FAX (713) 690-5646

**ANALYSIS REPORT**

ERM, Inc. (Roanoke, Va.)

3140 Chaparral Dr.

Suite 201

Roanoke, VA 24018

Attn: Mr. Ross Miller

Project: VA Scrap Iron and Metal Company

Sample ID: CS-DP1

Matrix: Soil

EPA Sx #: 025931

GSAI Sample: 94180

GSAI Group: 17388

Date Reported: 08/16/95

Discard Date: 09/15/95

Date Submitted: 08/12/95

Date Sampled: 08/11/95

Collected by: RM

Purchase Order:

Project No.: J9601.02.01

SDG #:

Analytical Results and Detection Limits are dry weight  
corrected for solid matrices.

Test	Analysis	Results	Units	IDL/CRDL/LOQ
0111	Moisture Method: EPA 160.3	4.0	%	0.10
TCLTQ	Metals, TCLP by ICP, Trace Method: SW-846 6010			
	Arsenic	U	mg/l	0.01
	Barium	1.6	mg/l	0.001
	Cadmium	0.61	mg/l	0.001
	Chromium	0.01	mg/l	0.001
	Lead	0.79	mg/l	0.003
	Selenium	0.04	mg/l	0.01
	Silver	U	mg/l	0.0003
0259U	Mercury on TCLP Extract Method: SW-846 7470	U	mg/l	0.0001

Respectfully Submitted,  
Reviewed and Approved by:

*Lisa R. Mayfield*  
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Lisa R. Mayfield  
Project Manager

AR100714



GULF STATES ANALYTICAL, INC.  
6310 Rothway • Houston, Texas 77040  
(713) 690-4444 • FAX (713) 690-5646

ANALYSIS REPORT

ERM, Inc. (Roanoke, Va.)  
3140 Chaparral Dr.  
Suite 201  
Roanoke, VA 24018

Attn: Mr. Ross Miller  
Project: VA Scrap Iron and Metal Company

Sample ID: CS-DP2  
Matrix: Soil  
EPA Sx #: 025932

GSAI Sample: 94181  
GSAI Group: 17388  
Date Reported: 08/16/95  
  
Discard Date: 09/15/95  
Date Submitted: 08/12/95  
Date Sampled: 08/11/95  
Collected by: RM  
Purchase Order:  
Project No.: J9601.02.01  
  
SDG #:

Analytical Results and Detection Limits are dry weight  
corrected for solid matrices.

Test	Analysis	Results	Units	IDL/CRDL/LOQ
0111	Moisture Method: EPA 160.3	4.2	%	0.10
TCLTQ	Metals, TCLP by ICP, Trace Method: SW-846 6010			
	Arsenic	U	mg/l	0.01
	Barium	2.3	mg/l	0.001
	Cadmium	0.09	mg/l	0.001
	Chromium	0.05	mg/l	0.001
	Lead	0.69	mg/l	0.003
	Selenium	0.03	mg/l	0.01
	Silver	U	mg/l	0.0003
0259U	Mercury on TCLP Extract Method: SW-846 7470	U	mg/l	0.0001

Respectfully Submitted,  
Reviewed and Approved by:

*Lisa R. Mayfield*  
Lisa R. Mayfield  
Project Manager

AR100715

ERM, Inc. (Roanoke, Va.)  
GSAI Group: 17388

**Qualifiers:**

**Organic:**

- U - Indicates compound was analyzed for but not detected.
- J - Indicates the presence of a compound where the result is less than the CRQL but greater than zero.
- B - Indicates that an analyte found was also found in the associated method blank.
- E - Identifies compounds whose concentrations exceed the calibration range.
- D - Indicates all compounds identified in an analysis that were analyzed at a secondary dilution.
- P - Identifies that the difference in the concentration of a Pesticide/Aroclor target analyte is greater than 25% between the two columns.
- C - Applies to Pesticide results where the identification has been confirmed by GC/MS.

**Inorganic:**

- U - Indicates compound was analyzed for but not detected.
- B - Indicates that a reported value was less than CRDL but greater than the IDL.
- \* - Duplicate analysis not within control limits.
- E - The reported value is estimated because of the presence of interference.
- N - Spiked sample recovery not within control limits.

**Furnace Qualifiers Only:**

- M - Duplicate injection precision not met.
- + - Correlation coefficient for the MSA is less than 0.995.
- W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
- S - The reported value was determined by the Method of Standard Additions (MSA).

AR100716